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UNITED STATES DEPARTMENT OF AGRICULTURE
Rural Electrification Administration
Washington 25, D. C.

March 1, 1949

To : All System Engineers, System Managers,
and REA Field Construction Engineers

From : J. K. O'Shaughnessy, Chief
Engineering Division

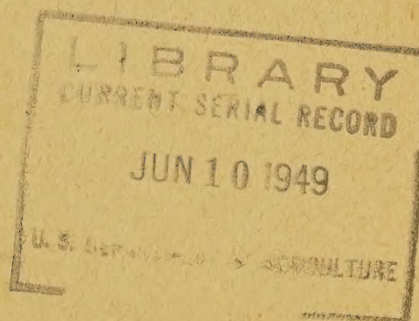
Subject: Current Engineering Memoranda

Attached is a list of engineering memoranda which are in effect as of March 1, 1949. Kindly check the supply which you have on hand against this list. Request any memoranda which you do not have, and limit such request only to those which are missing.

It is strongly recommended that a complete set of current engineering memoranda be kept in a loose leaf binder for reference. Memoranda no longer in effect should be removed from the binder.

J.K.O. Shaughnessy

Attachment



CURRENT ENGINEERING MEMORANDA
ISSUED BY
ENGINEERING DIVISION

<u>NUMBER</u>	<u>TITLE</u>
1R2	Loading Districts
7R2	Adequate Grounding on Distribution Line
21R3	Fuse Ratings
22R	Defective Materials
33R3	Voltage Regulation
Supplement No. 1 to 33R3	Maximum Demand Curve for Voltage Regulation
46R2	Location of Overhead Distribution and Transmission Lines in the Vicinity of Landing Areas and Radio Range Stations
50R4	Conductor Installation
Supplement No. 1 to 50R4	Conductor Installation - Ties
Supplement No. 2R to 50R4	Conductor Installation - Ties for Copper- weld and Copperweld-Copper Conductors
52R	Cost Breakdown
53R	Changes or Corrections in Line Con- struction
58R6	Final Inventory Documents, Labor and Material Contracts, REA Form DS-7R
Supplement No. 1R2 to 58R5	Final Inventory Documents-Escalator Clause
60R2	Selection of Transformer Sizes
63R4	Outline of Energizing Procedure
64R4	Pole Numbering
68R	Open-Hole Hazards
69R5	Reduced Size Neutral
71R2	Advertisement of Bid Openings
72R16	Pole Inspection Companies and Inspectors
78R2	Posting Labor Provisions of Contracts
Supplement No. 1 to 78R	Submission of Contractor's Pay rolls
80R2	Economical Choice of Poles
82R	Elimination of Objectionable Radio Interference Due to Faulty Con- struction or Defective Equipment on REA Lines
83	Accident Reports
87R2	Instructions to System Engineers Con- cerning Problems of Securing Clear Route for REA Line Construction
92R2	Procedures in Preparation of Con- struction Contract Amendments
93R4	Right-of-Way Clearing and Tree Trimming

2-Current Engineering Memoranda

NUMBER

TITLE

94R3	Substations
95R5	Service Entrance Installations and Termination of Service Drops
97	Special Assembly Units
112	Standard Stakes for REA Staking
113R3	Industrial Power Application (Large Power)
118R2	Use of Line Abandonment Order
120R2	Location and Size of System Sectionalizing Devices
122R	Engineer's Qualifications
123R2	Automatic Circuit Reclosers
127	Copies of Proposal Sheets to be Furnished Suppliers
128	Conductor Separation to Meet Code Require- ments
133R2	Specifications for the Treatment and Inspec- tion of Treated Timber Purchased by REA Borrowers
Supplement No. 1 to 133R2	Alternative Specifications for the Treat- ment and Inspection of Treated Timber Purchased by REA Borrowers.
Supplement No. 2 to 133R2	Specifications for Distribution Line Crossarms-("In the White")-Purchased by REA Borrowers
Supplement No. 3 to 133R2	Treatment Report Instructions - Treatment and Inspection of Treated Timber Purchas- ed by REA Borrowers
140R3	Suggestions for Use of Steel Conductor
143R2	Maximum Span Length Based Upon Pole Strength for Class 8 and 9 Poles
145R5	Service and Secondary Conductors
Supplement No. 1R to 145R4	Service Drop and Secondary Conductors
151	Engineering Assistance to REA Borrowers by Manufacturers or Material Suppliers
152	Bidder's Bonds in Lieu of Certified Checks
153R5	Changes in Construction Contract, REA Form DS-7R
154	REA Maps, Drawings, and Related Procedures
158	Workmen's Compensation Insurance Require- ments of Engineering Service Contracts
159R	Progress Schedule
Supplement No. 1 to 159R	Engineer's Weekly Report of Construction Progress, REA Form DS-27R2
160	Inductive Coordination with Communication Lines

3-Current Engineering Memoranda

<u>NUMBER</u>	<u>TITLE</u>
Supplement No. 1 to 160	Construction of Lines Across Lands Under Jurisdiction of United States Forest Service
161	Loan Funds for Force Account Labor in Connection with Construction Under Con- tract
162R	Preparation of Plans and Specifications
Supplement No. 1 to 162	Preparation of Plans and Specifications - Conversion and Removal Units, Labor and Material Contract, REA Form DS-7R
163R	Stringing and Sagging Copperweld and Copperweld-Copper Conductors
164	Award of Construction Contracts
Supplement No. 2 to 164	Award of Construction Contracts
165R	Payment to Contractor for Materials Deliver- ed
Supplement No. 1 to 165	Payments to Contractors for Increased Cost of Delivered Materials Subject to Pro- visions of Escalator Clause
Supplement No. 2 to 165	Payment to Contractors for Completed Por- tion of a Project
167R	Payments Due Contractors, System Engineers and Suppliers
Supplement No. 1 to 167R	Preparation of Final Inventory Documents and Final Payments to Contractors
Supplement No. 2 to 167R	Payment to System Engineers for Completed Portion of Services
Supplement No. 3 to 167R	Final Payments by Borrowers to Their Contractors and Engineers
169	Selection of Type of Conductor
170	Construction Procedures
Supplement No. 1 to 170	Consolidation of Purchase Orders into a Materials Contract
Supplement No. 2 to 170	Construction Procedures
Supplement No. 4 to 170	Materials Receipt
Supplement No. 7R to 170	Monthly Progress Report, REA Form DS-188
Supplement No. 8 to 170	Payment to System Engineers for Preliminary Plans and Specifications

4-Current Engineering Memoranda

NUMBER

TITLE

Supplement No. 9R to 170	Materials Contracts
Supplement No. 10 to 170	Materials Contracts
Supplement No. 11 to 170	Construction Procedures
Supplement No. 11A to 170	Materialman's Contract (WEC) - Conductor REA Form DS-230
171R	Guys and Anchors for Distribution Systems- Grade C.
172	Construction of a Project by Force Account
Supplement No. 1 to 172	Payment to System Engineers for Preliminary Plans and Specifications
Supplement No. 2R to 172	Materials Contracts
Supplement No. 4 to 172	Materials Contracts
Supplement No. 5 to 172	Monthly Progress Report, REA Form DS-188
173	Unloading and Storing Poles
174	Final Inventory Documents - Construction of a Project by Force Account
175	System Studies
176	Tap Assemblies, Copper and Copperweld Conductors
177	Insurance Requirements of Construction Contractors under Contract with REA Borrowers
178	Construction for Power Supply Conductors (7.2/12.5 KV) Crossing Communication Lines
179	Final Inventory Documents, Labor Only Contracts
Supplement No. 1 to 179	Final Inventory Documents, Labor Only Contract - Scrap Conductor and other Non- Usable Materials
181	Checking Sag by Return Wave Method
182	Power Loss in Conductors
183	Construction Costs
184	Paralleling Power Transformers
185R	Revised Construction Contract, REA Form DS-70R3
186	"Buy American" Certificate, REA Form DS-127 Aluminum Conductor and Aluminum Accessories
187	Depth of Pole Setting
189	Two-Way Communication Facilities

5-Current Engineering Memoranda

NUMBER

TITLE

Supplement No. 1
to 189

Two-Way Mobile Communication - General
Considerations

Supplement No. 2
to 189

Two-Way Radio Antenna Towers or Supporting
Structures

Supplement No. 3
to 189

Two-Way Radio Communications Operating
Experience

191

Investigation of Defective Pole Shipments
Engineering Services

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